SEQUENCE LISTING

<110> Greenlee, Winner and Sullivan, P.C.

    Vogel, Viola

<120> Use of Adhesion Molecules as Bond Stress-Enhanced Nanoscale Binding
Switches

<130> 91-02

<150> US 60/392,467

<151> 2002-06-27

<160> 16

<170> PatentIn version 3.1

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Ala Pro Ala Val Asn Val Gly
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Ala Asn Asn Asp Val Val Val Pro Thr Gly Gly
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Thr Pro Val Ser Ser Ala Gly Gly Val Ala Ile Lys Ala Gly Ser
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Ala Asn Asn Asp Val Val Pro Pro Thr Gly Gly
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<210> 11

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<400> 11

Ala Asn Asn Asp Pro Pro Val Pro Thr Gly Gly
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<210> 12

<211> 11

<212> PRT

<213> Artificial Sequence

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<220>

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<400> 13

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<211> 300

<212> PRT

<213> Escherichia coli

<400> 14

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Val Asn Ala Trp Ser Phe Ala Cys Lys Thr Ala Asn Gly Thr Ala Ile
                20   25   30

Pro Ile Gly Gly Gly Ser Ala Asn Val Tyr Val Asn Leu Ala Pro Ala
            35   40   45

Val Asn Val Gly Gln Asn Leu Val Val Asp Leu Ser Thr Gln Ile Phe
        50   55   60

Cys His Asn Asp Tyr Pro Glu Thr Ile Thr Asp Tyr Val Thr Leu Gln
65   70   75   80

Arg Gly Ser Ala Tyr Gly Gly Val Leu Ser Ser Phe Ser Gly Thr Val
                85   90   95

Lys Tyr Asn Gly Ser Ser Tyr Pro Phe Pro Thr Thr Ser Glu Thr Pro
                100   105   110

Arg Val Val Tyr Asn Ser Arg Thr Asp Lys Pro Trp Pro Val Ala Leu
                115   120   125

Tyr Leu Thr Pro Val Ser Ser Ala Gly Gly Val Ala Ile Lys Ala Gly
    130   135   140

Ser Leu Ile Ala Val Leu Ile Leu Arg Gln Thr Asn Asn Tyr Asn Ser
145   150   155   160

Asp Asp Phe Gln Phe Val Trp Asn Ile Tyr Ala Asn Asn Asp Val Val
                165   170   175

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Val Pro Thr Gly Gly Cys Asp Val Ser Ala Arg Asp Val Thr Val Thr
            180             185             190

Leu Pro Asp Tyr Pro Gly Ser Val Pro Ile Pro Leu Thr Val Tyr Cys
        195             200             205

Ala Lys Ser Gln Asn Leu Gly Tyr Tyr Leu Ser Gly Thr Thr Ala Asp
    210             215             220

Ala Gly Asn Ser Ile Phe Thr Asn Thr Ala Ser Phe Ser Pro Ala Gln
225             230             235             240

Gly Val Gly Val Gln Leu Thr Arg Asn Gly Thr Ile Ile Pro Ala Asn
            245             250             255

Asn Thr Val Ser Leu Gly Ala Val Gly Thr Ser Ala Val Ser Leu Gly
            260             265             270

Leu Thr Ala Asn Tyr Ala Arg Thr Gly Gly Gln Val Thr Ala Gly Asn
        275             280             285

Val Gln Ser Ile Ile Gly Val Thr Phe Val Tyr Gln
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<210> 15

<211> 279

<212> PRT

<213> Escherichia coli

<400> 15

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Ser Ala Asn Val Tyr Val Asn Leu Ala Pro Ala Val Asn Val Gly Gln
            20              25              30

Asn Leu Val Val Asp Leu Ser Thr Gln Ile Phe Cys His Asn Asp Tyr
        35              40              45

Pro Glu Thr Ile Thr Asp Tyr Val Thr Leu Gln Arg Gly Ser Ala Tyr
    50              55              60

Gly Gly Val Leu Ser Ser Phe Ser Gly Thr Val Lys Tyr Asn Gly Ser
65              70              75              80

Ser Tyr Pro Phe Pro Thr Thr Ser Glu Thr Pro Arg Val Val Tyr Asn
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                        85   90   95

Ser Arg Thr Asp Lys Pro Trp Pro Val Ala Leu Tyr Leu Thr Pro Val
            100   105   110

Ser Ser Ala Gly Gly Val Ala Ile Lys Ala Gly Ser Leu Ile Ala Val
            115   120   125

Leu Ile Leu Arg Gln Thr Asn Asn Tyr Asn Ser Asp Asp Phe Gln Phe
    130   135   140

Val Trp Asn Ile Tyr Ala Asn Asn Asp Val Val Val Pro Thr Gly Gly
145   150   155   160

Cys Asp Val Ser Ala Arg Asp Val Thr Val Thr Leu Pro Asp Tyr Pro
            165   170   175

Gly Ser Val Pro Ile Pro Leu Thr Val Tyr Cys Ala Lys Ser Gln Asn
            180   185   190

Leu Gly Tyr Tyr Leu Ser Gly Thr Thr Ala Asp Ala Gly Asn Ser Ile
            195   200   205

Phe Thr Asn Thr Ala Ser Phe Ser Pro Ala Gln Gly Val Gly Val Gln
    210   215   220

Leu Thr Arg Asn Gly Thr Ile Ile Pro Ala Asn Asn Thr Val Ser Leu
225   230   235   240

Gly Ala Val Gly Thr Ser Ala Val Ser Leu Gly Leu Thr Ala Asn Tyr
            245   250   255

Ala Arg Thr Gly Gly Gln Val Thr Ala Gly Asn Val Gln Ser Ile Ile
            260   265   270

Gly Val Thr Phe Val Tyr Gln
            275

<210>   16

<211>   903

<212>   DNA

<213>   Artificial Sequence

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<223>   Artificial DNA sequence of a FimH gene.

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